

d his

(FILE 'HOME' ENTERED AT 12:13:22 ON 11 DEC 2001)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 12:14:30 ON 11 DEC 2001

SEA PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCTI?

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1 FILE BIOSIS  
1 FILE BIOTECHABS  
1 FILE BIOTECHDS  
1 FILE CAPLUS  
2 FILE DGENE  
1 FILE IFIPAT  
2 FILE JICST-EPLUS  
1 FILE TOXLIT  
40 FILE USPATFULL  
11 FILE WPIDS  
11 FILE WPINDEX  
1 FILE NLDB

L1 QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCTI?

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SEA PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A

L2 QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A

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1 FILE BIOSIS  
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1 FILE NLDB

L3 QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A

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FILE 'USPATFULL, WPIDS, DGENE, JICST-EPLUS, BIOSIS, BIOTECHDS, CAPLUS, IFIPAT, TOXLIT, NLDB' ENTERED AT 12:28:11 ON 11 DEC 2001

L4 61 S PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND

L5 59 DUP REM L4 (2 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 12:40:48 ON 11 DEC 2001

FILE 'REGISTRY' ENTERED AT 12:47:11 ON 11 DEC 2001

L6 740610 S CGGTCA/SQSN  
L7 1528 S L6 AND -35?  
L8 9 S L7 AND PROMOT?  
L9 ( 1881523)S TTGTCA/SQSN  
L10 0 S TTGTCA/SQEN  
L11 1973070 S TTGACA/SQSN  
L12 13 S L11 AND -35? AND PROMOT?  
L13 2080989 S TTGCCA/SQSN  
L14 18 S L13 AND -35? AND PROMOT?  
L15 1881523 S TTGTCA/SQSN  
L16 14 S L15 AND -35? AND PROMOT?

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\*\*\*\*\* Welcome to STN International \*\*\*\*\*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
NEWS 3 Feb 06 Engineering Information Encompass files have new names  
NEWS 4 Feb 16 TOXLINE no longer being updated  
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure  
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA  
NEWS 7 May 07 DGENE Reload  
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL  
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's  
DWPI and DPCI  
NEWS 10 Aug 23 In-process records and more frequent updates now in  
MEDLINE  
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA  
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN  
NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change  
to PHARMASEARCH  
NEWS 14 Oct 09 Korean abstracts now included in Derwent World Patents  
Index  
NEWS 15 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 16 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 17 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 18 Oct 22 DGENE GETSIM has been improved  
NEWS 19 Oct 29 AAASD no longer available  
NEWS 20 Nov 19 New Search Capabilities USPATFULL and USPAT2  
NEWS 21 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN  
NEWS 22 Nov 29 COPPERLIT now available on STN  
NEWS 23 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 24 Nov 30 Files VETU and VETB to have open access  
NEWS 25 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
NEWS 26 Dec 10 DGENE BLAST Homology Search  
  
NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,  
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),  
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001  
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NEWS WWW CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 12:13:22 ON 11 DEC 2001

=> index bioscience medicine  
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.42	0.42

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...'

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62 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0\* with SET DETAIL OFF.

=> s promot? and dehydrogen? and amino? and acid? and producti? and corynef?

7 FILES SEARCHED...

1 FILE BIOSIS  
1 FILE BIOTECHABS  
1 FILE BIOTECHDS

12 FILES SEARCHED...

1 FILE CAPLUS

21 FILES SEARCHED...

2 FILE DGENE

26 FILES SEARCHED...

33 FILES SEARCHED...

1 FILE IFIPAT  
2 FILE JICST-EPLUS

43 FILES SEARCHED...

49 FILES SEARCHED...

1 FILE TOXLIT  
40 FILE USPATFULL  
11 FILE WPIDS

58 FILES SEARCHED...

11 FILE WPINDEX

60 FILES SEARCHED...

1 FILE NLDB

12 FILES HAVE ONE OR MORE ANSWERS, 62 FILES SEARCHED IN STNINDEX

L1 QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCTI? AND CORYNEF?  
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=> d rank

F1	40	USPATFULL
F2	11	WPIDS
F3	11	WPINDEX
F4	2	DGENE
F5	2	JICST-EPLUS
F6	1	BIOSIS
F7	1	BIOTECHABS
F8	1	BIOTECHDS
F9	1	CAPLUS
F10	1	IFIPAT
F11	1	TOXLIT
F12	1	NLDB

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9 FILES SEARCHED...

13 FILES SEARCHED...

24 FILES SEARCHED...

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35 FILES SEARCHED...  
 43 FILES SEARCHED...  
 49 FILES SEARCHED...  
 57 FILES SEARCHED...  
 58 FILES SEARCHED...  
 60 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 62 FILES SEARCHED IN STNINDEX

L2 QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND CORYNEF

=> d rank

NO F-NUMBERS HAD GREATER THAN ZERO HITS

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(FILE 'HOME' ENTERED AT 12:13:22 ON 11 DEC 2001)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 12:14:30 ON 11 DEC 2001

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'FULL' IS NOT VALID IN THE CURRENT FILE

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=> s PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND CORYNEF?

1 FILE BIOSIS  
 9 FILES SEARCHED...  
 1 FILE BIOTECHABS  
 1 FILE BIOTECHDS  
 14 FILES SEARCHED...  
 1 FILE CAPLUS  
 2 FILE DGENE  
 25 FILES SEARCHED...  
 35 FILES SEARCHED...

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1 FILE IFIPAT
2 FILE JICST-EPLUS
43 FILES SEARCHED...
49 FILES SEARCHED...
1 FILE TOXLIT
40 FILE USPATFULL
11 FILE WPIDS
58 FILES SEARCHED...
11 FILE WPINDEX
60 FILES SEARCHED...
1 FILE NLDB

12 FILES HAVE ONE OR MORE ANSWERS, 62 FILES SEARCHED IN STNINDEX

L3 QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND CORYNEF?

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F1      40  USPATFULL
F2      11  WPIDS
F3      11  WPINDEX
F4       2  DGENE
F5       2  JICST-EPLUS
F6       1  BIOSIS
F7       1  BIOTECHABS
F8       1  BIOTECHDS
F9       1  CAPLUS
F10      1  IFIPAT
F11      1  TOXLIT
F12      1  NLDB

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=> file f1-f12

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

11.73

12.15

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FILE 'TOXLIT' ENTERED AT 12:28:11 ON 11 DEC 2001

FILE 'NLDB' ENTERED AT 12:28:11 ON 11 DEC 2001  
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=> s PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND CORYNEF?  
2 FILES SEARCHED...  
6 FILES SEARCHED...

L4 61 PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND  
CORYNEF?

=> dup rem l4  
DUPLICATE IS NOT AVAILABLE IN 'DGENE'.  
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE  
PROCESSING COMPLETED FOR L4  
L5 59 DUP REM L4 (2 DUPLICATES REMOVED)

=> d ti l4 1-59

L4 ANSWER 1 OF 61 USPATFULL  
TI Nucleotide sequences encoding the dapC gene and process for the  
production of L-lysine

L4 ANSWER 2 OF 61 USPATFULL  
TI Process for producing L-amino acids

L4 ANSWER 3 OF 61 USPATFULL  
TI Bacterial strains for the production of 2-keto-L-gulonic acid

L4 ANSWER 4 OF 61 USPATFULL  
TI L-glutamic acid-producing bacterium and method for producing  
L-glutamic acid

L4 ANSWER 5 OF 61 USPATFULL  
TI Method for producing metabolites biologically synthesized via  
phosphoribosyl pyrophosphate

L4 ANSWER 6 OF 61 USPATFULL  
TI Alcohol dehydrogenase and its use for the enzymatic production of  
chiral hydroxy compounds

L4 ANSWER 7 OF 61 USPATFULL  
TI Method for producing L-lysine

L4 ANSWER 8 OF 61 USPATFULL  
TI L-glutamic acid-producing bacterium and method for producing  
L-glutamic acid

L4 ANSWER 9 OF 61 USPATFULL  
TI Method for the fermentative production of D-pantothenic acid using  
Coryneform bacteria

L4 ANSWER 10 OF 61 USPATFULL  
TI Process for producing L-glutamic acid by fermentation

L4 ANSWER 11 OF 61 USPATFULL  
TI Production of L-isoleucine by means of recombinant microorganisms with  
deregulated threonine dehydratase

## STN Columbus

L4 ANSWER 12 OF 61 USPATFULL  
TI Method of producing L-lysine

L4 ANSWER 13 OF 61 USPATFULL  
TI Method of producing L-lysine by fermentation

L4 ANSWER 14 OF 61 USPATFULL  
TI Alcohol **dehydrogenase** and its use for the enzymatic **production** of chiral hydroxy compounds

L4 ANSWER 15 OF 61 USPATFULL  
TI Method of producing L-serine by fermentation

L4 ANSWER 16 OF 61 USPATFULL  
TI Granule-associated proteins and methods for their use in polyhydroxyalkanoate biosynthesis

L4 ANSWER 17 OF 61 USPATFULL  
TI Method for producing L-lysine

L4 ANSWER 18 OF 61 USPATFULL  
TI  $\alpha$ -Ketoglutarate **dehydrogenase** gene

L4 ANSWER 19 OF 61 USPATFULL  
TI DNA which regulates gene expression in **coryneform** bacteria

L4 ANSWER 20 OF 61 USPATFULL  
TI Gene derived from **coryneform** bacteria and use thereof

L4 ANSWER 21 OF 61 USPATFULL  
TI Mutant phosphoenolpyruvate carboxylase, its gene, and **production** method of **amino acid**

L4 ANSWER 22 OF 61 USPATFULL  
TI Mutant phosphoenolpyruvate carboxylase, its gene, and **production** method of **amino acid**

L4 ANSWER 23 OF 61 USPATFULL  
TI Methods of producing L-lysine and L-glutamic **acid** by fermentation

L4 ANSWER 24 OF 61 USPATFULL  
TI Increased amounts of substances by modifying a microorganism to increase **production** of NADPH from NADH

L4 ANSWER 25 OF 61 USPATFULL  
TI Method of amplifying genes using artificial transposons in **coryneform** bacteria

L4 ANSWER 26 OF 61 USPATFULL  
TI Method of producing L-lysine

L4 ANSWER 27 OF 61 USPATFULL  
TI Process for producing L-tryptophan, L-tyrosine or L-phenylalanine

L4 ANSWER 28 OF 61 USPATFULL  
TI Process for producing alanine

L4 ANSWER 29 OF 61 USPATFULL  
TI Overproduction and purification of soluble PHA synthase

L4 ANSWER 30 OF 61 USPATFULL

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- TI DNA fragment containing gene which encodes the function of stabilizing plasmid in host microorganism
- L4 ANSWER 31 OF 61 USPATFULL  
TI Method for producing L-tryptophan by fermentation
- L4 ANSWER 32 OF 61 USPATFULL  
TI Metabolic pathway engineering to increase **production** of ascorbic acid intermediates ✓
- L4 ANSWER 33 OF 61 USPATFULL  
TI Isolated phenylalanine **dehydrogenase** gene and process for **production** of phenylalanine **dehydrogenase**
- L4 ANSWER 34 OF 61 USPATFULL  
TI Ascorbic acid intermediates and process enzymes
- L4 ANSWER 35 OF 61 USPATFULL  
TI Ascorbic acid intermediates and process enzymes
- L4 ANSWER 36 OF 61 USPATFULL  
TI Isolated phenylalanine **dehydrogenase** gene and process for **production** of phenylalanine **dehydrogenase**
- L4 ANSWER 37 OF 61 USPATFULL  
TI Ascorbic acid intermediates and process enzymes
- L4 ANSWER 38 OF 61 USPATFULL  
TI Ascorbic acid intermediates and process enzymes
- L4 ANSWER 39 OF 61 USPATFULL  
TI Recombinant DNA having a phosphoenol pyruvate carboxylase gene inserted therein, bacteria carrying said recombinant DNA and a process for producing **amino acids** using said bacteria ✓
- L4 ANSWER 40 OF 61 USPATFULL  
TI Steroid **production**
- L4 ANSWER 41 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
TI New dapC gene from **coryneform** bacteria, useful when over-expressed for increasing fermentative **production** of L-amino acids, and also for isolating related sequences.
- L4 ANSWER 42 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
TI New gene for component H of the **coryneform** phosphotransferase system, useful for producing bacteria with increased **production** of L-amino acids. ✓
- L4 ANSWER 43 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
TI New isolated polynucleotide encoding phosphofructokinase A of **coryneform** bacteria, useful, when overexpressed, for increasing fermentative **production** of **amino acids**.
- L4 ANSWER 44 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
TI New zwf gene from Corynebacterium glutamicum, useful, when over expressed, for increasing fermentative **production** of **amino acids**, especially lysine.
- L4 ANSWER 45 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
TI **Production** of L-amino acids by **coryneform** bacteria, useful e.g. in animal nutrition, by fermenting cells with reduced glyA (serine hydroxymethyltransferase) gene activity.



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- L4 ANSWER 46 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI New nucleic acid encoding **coryneform** succinate **dehydrogenase**, useful for producing bacteria with increased **productivity** for L-amino acids.
- L4 ANSWER 47 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI New isolated polynucleotide encoding phosphoglycerate mutase of **coryneform** bacteria, useful, when overexpressed, for increasing fermentative **production** of amino acids.
- L4 ANSWER 48 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI New isolated polynucleotide encoding glucokinase of **coryneform** bacteria, useful, when overexpressed, for increasing fermentative **production** of amino acids.
- L4 ANSWER 49 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI New isolated polynucleotide encoding phosphofructokinase of **coryneform** bacteria, useful, when over expressed, for increasing fermentative **production** of amino acids.
- L4 ANSWER 50 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI New enolase gene from **coryneform** bacteria, used to prepare transformants with increased synthesis of amino acids, particularly lysine. ✓
- L4 ANSWER 51 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI Preparation of L-amino acids, e.g. L-lysine, L-threonine or L-isoleucine, useful in animal nutrition and pharmaceuticals, by fermentation of **coryneform** bacteria.
- L4 ANSWER 52 OF 61 DGENE COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI Microorganism with enhanced intracellular glutamate **dehydrogenase** activity, useful for producing L-arginine -
- L4 ANSWER 53 OF 61 DGENE COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI Microorganism with enhanced intracellular glutamate **dehydrogenase** activity, useful for producing L-arginine -
- L4 ANSWER 54 OF 61 JICST-EPlus COPYRIGHT 2001 JST  
 TI High Level Expression of XMP Aminase in Escherichia coli and Its Application for the Industrial **Production** of 5'-Guanylic Acid.
- L4 ANSWER 55 OF 61 JICST-EPlus COPYRIGHT 2001 JST  
 TI Cloning and expression in Escherichia coli of the glutamate **dehydrogenase** gene, gdh, from Corynebacterium melassecola.
- L4 ANSWER 56 OF 61 BIOSIS COPYRIGHT 2001 BIOSIS  
 TI CLONING AND EXPRESSION IN ESCHERICHIA-COLI OF THE GLUTAMATE **DEHYDROGENASE** GENE GDH FROM CORYNEBACTERIUM-MELASSECOLA. ✓
- L4 ANSWER 57 OF 61 BIOTECHDS COPYRIGHT 2001 DERWENT INFORMATION LTD  
 TI Alpha-ketoglutaric-**dehydrogenase** gene;  
     L-glutamic acid **production** by a mutant bacterium and recombinant  
     L-lysine **production** by oxoglutarate-**dehydrogenase** gene expression in host bacterium
- L4 ANSWER 58 OF 61 CAPLUS COPYRIGHT 2001 ACS  
 TI Process for constructing amino acid-producing **coryneform** bacterium and process for producing amino acid by fermentation method with the use of the thus constructed amino acid-producing bacterium ✓
- L4 ANSWER 59 OF 61 IFIPAT COPYRIGHT 2001 IFI  
 TI ALPHA-KETOGLUTARATE **DEHYDROGENASE** GENE; GENE WHICH CODES FOR ENZYME WITH INCREASED ACTIVITY TO PRODUCE SUCCINYL-COENZYME A FROM

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ALPHA-KETOGLUTARIC ACID WHEN TRANSFORMED INTO CORYNEBACTERIUM; FOR  
FERMENTATIVE PRODUCTION OF L-GLUTAMIC ACID AND L-LYSINE

=> d 14 39,42,50,56,58, ibib abs

L4 ANSWER 39 OF 61 USPATFULL

## Full-text

ACCESSION NUMBER: 88:43971 USPATFULL  
TITLE: Recombinant DNA having a phosphoenol pyruvate  
carboxylase gene inserted therein, bacteria carrying  
said recombinant DNA and a process for producing  
amino acids using said bacteria  
INVENTOR(S): Sano, Konosuke, Tokyo, Japan  
Ito, Koichi, Kawasaki, Japan  
Miwa, Kiyoshi, Matsudo, Japan  
Nakamori, Shigeru, Yokohama, Japan  
PATENT ASSIGNEE(S): Ajinomoto Co., Inc., Tokyo, Japan (non-U.S.  
corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4757009		19880712
APPLICATION INFO.:	US 1984-645107		19840828 (6)

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1983-157512	19830829
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Wiseman, Thomas G.	
ASSISTANT EXAMINER:	Huleatt, Jayme A.	
LEGAL REPRESENTATIVE:	Oblon, Fisher, Spivak, McClelland Maier	
NUMBER OF CLAIMS:	7	
EXEMPLARY CLAIM:	3	
NUMBER OF DRAWINGS:	8 Drawing Figure(s); 7 Drawing Page(s)	
LINE COUNT:	716	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A recombinant DNA molecule comprising a plasmid vector having  
operationally inserted therein a gene coding for phosphoenol pyruvate  
carboxylase is disclosed along with bacteria containing this recombinant  
DNA molecule and methods of using these bacteria to produce amino  
acids in large quantities.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L4 ANSWER 42 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

## Full-text

ACCESSION NUMBER: 2001-515373 [57] WPIDS  
DOC. NO. CPI: C2001-154196  
TITLE: New gene for component H of the coryneform  
phosphotransferase system, useful for producing bacteria  
with increased production of L-amino acids.  
DERWENT CLASS: B05 D16 E16  
INVENTOR(S): FARWICK, M; MOCKEL, B; PFEFFERLE, W; MOECKEL, B  
PATENT ASSIGNEE(S): (DEGS) DEGUSSA-HUELS AG; (DEGS) DEGUSSA AG  
COUNTRY COUNT: 30  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
DE 10001101	A1	20010719	(200157)*		10

## STN Columbus

AU 2000072548 A 20010726 (200157)  
 CA 2328583 A1 20010713 (200157) EN  
 EP 1118666 A2 20010725 (200157) GE  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI TR  
 ZA 2001000332 A 20010926 (200161) 37  
 JP 2001224390 A 20010821 (200162) 15

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
DE 10001101	A1	DE 2000-10001101	20000113
AU 2000072548	A	AU 2000-72548	20001228
CA 2328583	A1	CA 2001-2328583	20010110
EP 1118666	A2	EP 2001-100695	20010112
ZA 2001000332	A	ZA 2001-332	20010111
JP 2001224390	A	JP 2001-5671	20010112

PRIORITY APPLN. INFO: DE 2000-10001101 20000113

AN 2001-515373 [57] WPIDS

AB DE 10001101 A UPAB: 20011005

NOVELTY - Isolated polynucleotide (I) from **coryneform** bacteria is a sequence at least 70% identical with a sequence that encodes an 89 **amino acid** (aa) polypeptide (S2) fully defined in the specification, a sequence that encodes a polypeptide at least 70% identical with (S2), its complement or fragment containing at least 15 consecutive nucleotides (nt) of (I).

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included form the following:

(1) vector (II) containing (I);  
 (2) **coryneform** bacteria containing (II); and  
 (3) **production** of L-aa by fermenting an appropriate **coryneform** in which the gene encoding component H of the phosphotransferase system is amplified, especially over expressed.

USE - (I) is used to prepare **coryneform** bacteria that express L-**amino acids**, specifically L-lysine, useful in human medicine, pharmaceuticals and particularly animal nutrition. Fragments of (I) are useful as primers for preparing, by polymerase chain reaction, the DNA the encodes the ptsH gene **product**, also as hybridization probes for isolating full-length, or related, coding sequences.

ADVANTAGE - Cells that over express (I) show improved **production** of L-aa (no details).  
 Dwg.0/0

L4 ANSWER 50 OF 61 WPIDS COPYRIGHT 2001 DERWENT INFORMATION LTD

Full-text

ACCESSION NUMBER: 2001-292928 [31] WPIDS

DOC. NO. CPI: C2001-089883

TITLE: New enolase gene from **coryneform** bacteria, used to prepare transformants with increased synthesis of **amino acids**, particularly lysine.

DERWENT CLASS: B05 D16 E16

INVENTOR(S): BATHE, B; HERMANN, T; KALINOWSKI, J; MOCKEL, B; PFEFFERLE, W; PUHLER, A; MOECKEL, B; PUEHLER, A

PATENT ASSIGNEE(S): (DEGS) DEGUSSA-HUELS AG

COUNTRY COUNT: 33

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
-----					

## STN Columbus

EP 1090998 A1 20010411 (200131)\* GE 25  
 R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT  
 RO SE SI  
 DE 19947791 A1 20010412 (200131)  
 AU 2000061359 A 20010412 (200132)  
 CA 2319716 A1 20010405 (200133) EN  
 BR 2000004643 A 20010612 (200137)  
 CN 1290750 A 20010411 (200140)  
 JP 2001161380 A 20010619 (200140) 13  
 ZA 2000005409 A 20010627 (200140) 34  
 SK 2000001458 A3 20010710 (200157)  
 KR 2001050840 A 20010625 (200172)

## APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 1090998	A1	EP 2000-121158	20000929
DE 19947791	A1	DE 1999-19947791	19991005
AU 2000061359	A	AU 2000-61359	20000928
CA 2319716	A1	CA 2000-2319716	20001004
BR 2000004643	A	BR 2000-4643	20001004
CN 1290750	A	CN 2000-129571	20000927
JP 2001161380	A	JP 2000-305110	20001004
ZA 2000005409	A	ZA 2000-5409	20001004
SK 2000001458	A3	SK 2000-1458	20000929
KR 2001050840	A	KR 2000-58213	20001004

PRIORITY APPLN. INFO: DE 1999-19947791 19991005

AN 2001-292928 [31] WPIDS

AB EP 1090998 A UPAB: 20010615

NOVELTY - An isolated nucleic acid (I) from *coryneform* bacteria encoding a polypeptide at least 70 % identical with a 425 residue amino acid sequence (S2), or having a complementary nucleotide sequence, or at least 15 consecutive bases of it, is new.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for fermentative production of L-amino acids, especially L-lysine, by fermenting a lysine-producing *coryneform* in which the eno gene has been amplified, and isolating amino acids that have accumulated in the medium or cells.

USE - (I), which encodes an enolase, is used to transform *coryneforms* for production of L-amino acids, specifically lysine which is used in medicine and particularly as animal feed supplement (claimed). It may also be used as probes and primers for isolating related sequences.

ADVANTAGE - Overexpression of (I) improves production of amino acids, especially of L-lysine.

Dwg.0/2

L4 ANSWER 56 OF 61 BIOSIS COPYRIGHT 2001 BIOSIS

## Full-text

ACCESSION NUMBER: 1990:374864 BIOSIS

DOCUMENT NUMBER: BA90:61545

TITLE: CLONING AND EXPRESSION IN ESCHERICHIA-COLI OF THE GLUTAMATE DEHYDROGENASE GENE GDH FROM CORYNEBACTERIUM-MELASSECOLA.

AUTHOR(S): TAKEDA Y; NAKAJYOH Y; ISSHIKI S

CORPORATE SOURCE: ASAHI CHEM. INDUSTRY CO. LTD., NOBOKA, MIYAZAKI 882, JPN.

SOURCE: J FERMENT BIOENG, (1990) 69 (6), 317-321.

CODEN: JFBIEX. ISSN: 0922-338X.

FILE SEGMENT: BA; OLD

LANGUAGE: English

## STN Columbus

AB A hybrid plasmid containing a fragment of the *Corynebacterium melassecola* chromosome cloned into pBR325 restored growth of glutamate auxotrophs of *Escherichia coli* strains that have mutations in the genes for glutamate **dehydrogenase** and glutamate synthase. A 3.1-kilobase pair region was shown by complementation analysis and enzyme measurements to carry the glutamate **dehydrogenase** gene, *gdh*. Glutamate **dehydrogenase** encoded by *gdh* carried on recombinant plasmids was elevated over 100-fold in *E. coli* cells. The *gdh* **promoter** was located by in vitro fusion to a **promoter**-deficient *galK* gene.

L4 ANSWER 58 OF 61 CAPLUS COPYRIGHT 2001 ACS

Full-text

ACCESSION NUMBER: 2000:227797 CAPLUS

DOCUMENT NUMBER: 132:275135

TITLE: Process for constructing **amino acid**-producing **coryneform** bacterium and process for producing **amino acid** by fermentation method with the use of the thus constructed **amino acid**-producing bacterium.

INVENTOR(S): Asakura, Yoko; Nakamura, Jun; Kanno, Sohei; Suga, Mikiko; Kimura, Eiichiro; Ito, Hisao; Matsui, Kazuhiko; Ohsumi, Tsuyoshi; Nakamatsu, Tsuyoshi; Kurahashi, Osamu

PATENT ASSIGNEE(S): Ajinomoto Co., inc., Japan

SOURCE: PCT Int. Appl., 98 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018935	A1	20000406	WO 1999-JP5175	19990922
W:		AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM		
RW:		GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG		
AU 9957578	A1	20000417	AU 1999-57578	19990922
AU 737421	B2	20010816		
EP 1033407	A1	20000906	EP 1999-944770	19990922
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI		
BR 9909409	A	20001121	BR 1999-9409	19990922
PRIORITY APPLN. INFO.:			JP 1998-271786	A 19980925
			JP 1998-271787	A 19980925
			WO 1999-JP5175	W 19990922

AB Described is a process for prepg. a **coryneform** bacterium mutant having an improved **amino acid**- or nucleic acid-productivity, by mutating or genetically recombining the **promoter** sequence of an **amino acid** or nucleic acid biosynthesis gene on the chromosome of the **coryneform** bacterium so as to bring it close to the consensus sequence. The resultant mutants are then cultured for producing the **amino acid** or the nucleic acid at a high yield. By using this process, the expression of a target gene can be enhanced without using plasmid vectors. Demonstrated were the substitution mutation at CCGTCA, TTGTCA, TTGACA, or TTGCCA of the -35 region and/or at TATAAT or ATAAT of the -10 region of the glutamate **dehydrogenase** (*GDH*) gene *gdh*, selection of the

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**coryneform** bacterium mutant by using 4-fluoroglutamic acid, and use of the **coryneform** bacterium mutant for the prodn. oligonucleotide L-glutamic acid. Mutation of the promoter of (1) gene gltA for citrate synthase (CS); (2) gene icd for isocitrate dehydrogenase (ICDH); (3) gene pdhA for pyruvate dehydrogenase (PDH) subunit A; and (4) gene argG for argininosuccinate synthetase; resp., was also demonstrated.

REFERENCE COUNT: 8  
 REFERENCE(S): (1) Anon; FR 2679921 A1 CAPLUS  
 (2) Anon; FR 2679922 A1 CAPLUS  
 (3) Anon; EP 551506 A1 CAPLUS  
 (4) Anon; WO 93/03158 A1 CAPLUS  
 (5) Asahi Chemical Industry Co, Ltd; JP 63-214189 A  
 1988 CAPLUS  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file registry		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	52.20	64.35
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.59	-0.59

FILE 'REGISTRY' ENTERED AT 12:40:48 ON 11 DEC 2001  
 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
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STRUCTURE FILE UPDATES: 10 DEC 2001 HIGHEST RN 374668-20-9  
 DICTIONARY FILE UPDATES: 10 DEC 2001 HIGHEST RN 374668-20-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
 for more information. See STNote 27, Searching Properties in the CAS  
 Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e cggtcā/sqsn  
 'SQSN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'REGISTRY'  
 The indicated field code is not available for EXPAND in this  
 file. To see a list of valid EXPAND field codes, enter HELP  
 SFIELDS at an arrow prompt (=>).

=> help sfields

The searchable fields in the REGISTRY File for general terms,  
 nomenclature-based terms, terms derived from molecular formulas, and  
 property data terms are listed below. If you do not specify a field,  
 your term will be searched in the Basic Index, which contains all  
 name segments, collective index codes, and molecular formula  
 fragments.

CAS Registry Numbers may also be entered without a field code. The  
 system will automatically append /RN to the Registry Numbers before

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searching them. Registry Numbers containing truncation or character masking must be searched in the /RN field.

Both left and right truncation may be used in the /CNS and /NTE search fields in the REGISTRY File. A term with left truncation must contain at least four characters, for example, S ?CYAN?/CNS. A term with left truncation will retrieve only terms that have at least one alphabetic character, for example, S ?1040/CNS will retrieve C1040/CNS but not 21040/CNS or 1040/CNS.

Numeric fields may be searched as single point values, ranges, or with numeric operators, e.g., 12/S, 200-250/FW, NC >= 3.

Material Composition (MAC) may be searched with both text terms for components and numeric terms for composition. For further information, enter HELP MAC at an arrow prompt (=>).

FIELD NAME	FIELD QUALIFIER
Basic Index	/BI (or none)
CAS Registry Number Locator	/LC
CAS Registry Number	/RN
Class Identifier	/CI
Component Registry Number	/CRN
Definition	/DEF
Entry Date	/ED (numeric)
Field Availability	/FA
File Segment	/FS
Number of References in the CA File	/REF.CA (numeric)
Number of References in the CA File for non-specific derivatives	/REF.CAD (numeric)
Number of References in the CAOLD File	/REF.CAOLD (numeric)
Number of References in the CAPLUS File	/REF.CAPLUS (numeric)
Polymer Class Term	/PCT
Update Date	/UP (numeric)
Nomenclature Fields	
-----	
Chemical Name	/CN
Chemical Name Segment	/CNS
Heading Parent	/HP
Index Name Segment - Heading Parent	/INS.HP
Index Name Segment - Non-Heading Parent	/INS.NHP
Other Name Segment	/ONS
Molecular Formula Fields	
-----	
Atom Count	/ATC (numeric)
Element Count	/ELC (numeric)
Element Count for Substance	/ELC.SUB (numeric)
Element Formula	/ELF
Element Ratio, xx (xx = CH, CN, CO, HC, HN, HO, NC, NH, NO, OC, OH, ON)	/ELR.xx (numeric)
Element Symbol	/ELS
Element Symbol for Multicomponent Formula	/ELS.MCF
Formula Weight	/FW (numeric)
Material Composition	/MAC (mixed)
Molecular Formula	/MF
Number of Components	/NC (numeric)

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Periodic Group	/PG
Relative Composition	/RC
Specific Element Counts	/CU, /NI, etc. (numeric)

The Element Formula (ELF) field requires spaces between the elements in the formula, e.g., => S C H N O/ELF. The Molecular Formula (MF) field may be entered with or without spaces. Formula fragments searched in the Basic Index must be entered without spaces.

### Property Search Fields

-----

Field Availability	/FA
Field Not Available	/FNA
Freely Rotatable Bonds	/FRB (numeric)
Hydrogen Donors	/HD (numeric)
Hydrogen Acceptors	/HAC (numeric)
LogD	/LOGD (numeric)
LogD pH Values	/LOGD.PH (numeric)
LogP	/LOGP (numeric)
Molar Solubility	/SLB.MOL (numeric)
Molar Solubility pH Values	/SLB.PH (numeric)
Molecular Weight	/MW (numeric)
pKa	/PKA (numeric)
pKa Type	/PKA.TYP
Property Source Note	/PSO
Property Type	/PTYP

Additional information on search or display fields is available in the following messages:

HELP SRINGS - list of ring data search fields  
HELP SSQ - list of biosequence search fields  
HELP DFIELDS - list of display field codes

For additional information on property searching in the REGISTRY File, enter the following at an arrow prompt.

HELP ACD - definitions of ACD calculated properties  
HELP CALC - calculated properties in the REGISTRY File  
HELP SNUMERIC - numeric fields in the REGISTRY File

=> help ssq

Sequence information may be retrieved from the REGISTRY File using a variety of search fields.

### Protein Sequences

Four options are available for searching protein sequences using amino acid codes. Each requires the corresponding field qualifier described below. The sequence query is input using 1- and/or 3-letter codes for the amino acids. Enter HELP AAC at an arrow prompt (=>) in the REGISTRY File for a list of codes for the common amino acids. Enter HELP AAU at an arrow prompt for the codes for the uncommon amino acids. Enter HELP SQQ at an arrow prompt for information on symbols used to allow for variability in subsequence queries.

Exact Sequence Search of Proteins (/SQEP) retrieves sequences that exactly match the search query. The search query must be



completely defined. Variability symbols are not allowed.

Exact Family Sequence Search of Proteins (/SQEFP) retrieves answers that exactly match the query and answers in which family-equivalent substitution of the query amino acids occurs. Variability symbols are not allowed.

Subsequence Search of Proteins (/SQSP) retrieves exact answers plus sequences in which the query sequence is embedded. Variability symbols are allowed.

Subsequence Family Search of Proteins (/SQSFP) retrieves exact sequences, subsequences, and answers in which family-equivalent substitution of the query amino acids occurs. For example, the query ADHIFC/SQSFP retrieves the equivalent fragment ...PQKLYC..

The families of amino acid equivalents retrieved in protein family searches are:

P, A, G, S, T	(neutral, weakly hydrophobic)
Q, N, E, D, B, Z	(hydrophilic, acid amine)
H, K, R	(hydrophilic, basic)
L, I, V, M	(hydrophobic)
F, Y, W	(hydrophobic, aromatic)
C	(cross-link forming)

In addition to these sequence search methods, you also have the option of searching the following fields with text or numeric information on protein sequence features:

Definition	Search code
Note	/NTE
Sequence Length	/SQL

Left truncation may be used in the /NTE search field. A term with left truncation must contain at least four characters, for example, => S ?CHLOR?/NTE. The /SQL field is a numeric field and may be searched with numeric operators or ranges, e.g. 100-200/SQL.

A protein sequence query (i.e. a query consisting of one or more of these fields: /SQEP, /SQSP, /SQEFP, /SQSFP, /SQL or /NTE) may be combined directly in a single search with only the following fields: /FS, /UP. However, any sequence field may be combined with any L-numbered answer set in the REGISTRY File.

#### Nucleic Acid Sequences

Two options are available for searching nucleic acid sequences using 1-letter codes. Each requires the corresponding field qualifier described below. Enter HELP NUC at an arrow prompt in the REGISTRY File for a list of codes for nucleic acids. Enter HELP SQQ for information on symbols used to allow for variability in subsequence queries.

Exact Sequence Search of Nucleic Acids (/SQEN) retrieves sequences that exactly match the search query. The search query must be completely defined. Ambiguity codes for nucleic acids are allowed. Variability symbols are not allowed.

Subsequence Search of Nucleic Acids (/SQSN) retrieves exact answers plus sequences in which the query sequence is embedded.

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Variability symbols are allowed.

In addition to these sequence search methods you also have the option of searching the following fields with information on nucleic acid sequence features:

Definition	Search code
Nucleic Acid (type)	/NA
Nucleic Acid Count	/NA.CNT
Sequence Length	/SQL

The /SQL field is a numeric field.

A nucleic acid sequence query (i.e. a query consisting of one or more of these fields: /SQEN, /SQSN, /NA, /NA.CNT, /SQL) may be combined directly in a single search with only the following fields: /FS, /UP. However, any sequence field may be combined with any L-numbered answer set in the REGISTRY File.

=> file registry  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
4.07	68.42

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-0.59

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DICTIONARY FILE UPDATES: 10 DEC 2001 HIGHEST RN 374668-20-9

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e cggta/SQSN

'SQSN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'REGISTRY'  
The indicated field code is not available for EXPAND in this  
file. To see a list of valid EXPAND field codes, enter HELP  
SFIELDS at an arrow prompt (=>).

=> s cggta/sqsn

L6 740610 CGGTCA/SQSN

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```
=> s 16 and -35?
      94987 -35?
      (35?)
L7      1528 L6 AND -35?
```

```
=> d 17 1
```

```
L7  ANSWER 1 OF 1528  REGISTRY  COPYRIGHT 2001 ACS
RN  372532-58-6  REGISTRY
CN  DNA (synthetic clone DL7.35 lariat-forming ribozyme
     fragment-specifying cDNA) (9CI)  (CA INDEX NAME)
FS  NUCLEIC ACID SEQUENCE
MF  Unspecified
CI  MAN
SR  CA
LC  STN Files:  CA, CAPLUS
```

## STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

```
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)
```

```
=> d 17 1 kwic
```

```
L7  ANSWER 1 OF 1528  REGISTRY  COPYRIGHT 2001 ACS
CN  DNA (synthetic clone DL7.35 lariat-forming ribozyme
     fragment-specifying cDNA) (9CI)  (CA INDEX NAME)
```

```
SEQ      51 tcgaggcact ggaaaactac agagacagcg gtcactcatg aatccgccgg
                                     == ==
```

```
HITS AT:  79-84
```

```
=> d his
```

(FILE 'HOME' ENTERED AT 12:13:22 ON 11 DEC 2001)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCCommerce, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 12:14:30 ON 11 DEC 2001

SEA PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCTI?

-----

```
1  FILE BIOSIS
1  FILE BIOTECHABS
1  FILE BIOTECHDS
1  FILE CAPLUS
2  FILE DGENE
1  FILE IFIPAT
2  FILE JICST-EPLUS
1  FILE TOXLIT
40 FILE USPATFULL
11 FILE WPIDS
11 FILE WPINDEX
1  FILE NLDB
```

```
L1  QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCTI?
```

-----

SEA PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A

-----

# STN Columbus

L2            QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A  
 -----  
              SEA PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A  
 -----  
              1    FILE BIOSIS  
              1    FILE BIOTECHABS  
              1    FILE BIOTECHDS  
              1    FILE CAPLUS  
              2    FILE DGENE  
              1    FILE IFIPAT  
              2    FILE JICST-EPLUS  
              1    FILE TOXLIT  
              40    FILE USPATFULL  
              11    FILE WPIDS  
              11    FILE WPINDEX  
              1    FILE NLDB

L3            QUE PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? A  
 -----

FILE 'USPATFULL, WPIDS, DGENE, JICST-EPLUS, BIOSIS, BIOTECHDS, CAPLUS, IFIPAT, TOXLIT, NLDB' ENTERED AT 12:28:11 ON 11 DEC 2001

L4            61 S PROMOT? AND DEHYDROGEN? AND AMINO? AND ACID? AND PRODUCT? AND  
 L5            59 DUP REM L4 (2 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 12:40:48 ON 11 DEC 2001

FILE 'REGISTRY' ENTERED AT 12:47:11 ON 11 DEC 2001

L6            740610 S' CCGTCA/SQSN

L7            1528 S L6 AND -35?

=> s l7 and promot?

10426 PROMOT?

L8            9 L7 AND PROMOT?

=> d l8 1-9

L8    ANSWER 1 OF 9    REGISTRY    COPYRIGHT 2001 ACS

RN    252031-57-5    REGISTRY

CN    DNA (H6 promoter region plus human cytomegalovirus gene pp65 plus 42K promoter region plus human cytomegalovirus gene pp150 plus vaccinia virus strain ALVAC fragment plus C6 locus) (9CI)    (CA INDEX NAME)

OTHER NAMES:

CN    35: PN: US5997878 SEQID: 71 claimed DNA

FS    NUCLEIC ACID SEQUENCE

MF    Unspecified

CI    MAN

SR    CA

LC    STN Files:    CA, CAPLUS, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8    ANSWER 2 OF 9    REGISTRY    COPYRIGHT 2001 ACS

RN    242136-68-1    REGISTRY

CN    DNA (tomato line 1345-4 synthetic gene Acc2 fragment plus flanks) (9CI)  
       (CA INDEX NAME)

OTHER NAMES:

CN    DNA (tomato line 1345-4 synthetic T-DNA aminocyclopropane carboxylate synthase 2 gene fragment plus flanks)

CN    DNA (tomato line 1345-4 T-DNA inverted transgene AccS fragment plus

# STN Columbus

transgene AccS plus inverted transgene AccS fragment plus flanks)  
 CN DNA (transgenic tomato line 1345-4 T-DNA nos3' plus inverted gene  
 Acc2 fragment plus 35S promoter plus ocs3' plus inverted gene NPTII plus  
 gene nos promoter plus gene NPTII plus ocs3' plus 35S promoter plus gene  
 Acc2 fragment plus nos3' plus inverted gene Acc2 fragment plus 35S  
 promoter plus ocs3' plus inverted gene NPTII)  
 CN GenBank AR074365  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, GENBANK, TOXLIT, USPATFULL

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 3 OF 9 REGISTRY COPYRIGHT 2001 ACS  
 RN 235402-30-9 REGISTRY  
 CN DNA (Mycobacterium BCG strain ATCC 35734 PAN promoter  
 region-containing 2,405-nucleotide fragment) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN GenBank AF095590  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR GenBank  
 LC STN Files: CA, CAPLUS, GENBANK, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 4 OF 9 REGISTRY COPYRIGHT 2001 ACS  
 RN 202540-02-1 REGISTRY  
 CN DNA (human interleukin 12 35-kilodalton subunit gene promoter region)  
 (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 5 OF 9 REGISTRY COPYRIGHT 2001 ACS  
 RN 200649-98-5 REGISTRY  
 CN DNA (Salmonella typhimurium infection-induced gene promoter  
 region-containing 353-nucleotide fragment) (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

# STN Columbus

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 6 OF 9 REGISTRY COPYRIGHT 2001 ACS  
RN 200648-66-4 REGISTRY  
CN DNA (Salmonella typhimurium infection-induced gene promoter region-containing 359-nucleotide fragment) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS

STRUCTURE DIAGRAM IS NOT AVAILABLE  
USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE  
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 7 OF 9 REGISTRY COPYRIGHT 2001 ACS  
RN 187758-64-1 REGISTRY  
CN DNA (plasmid pTS172) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN Deoxyribonucleic acid (plasmid pTS172 Bacillus amyloliquefaciens barnase gene plus rice gene E1 promoter region plus bar gene plus cauliflower mosaic virus 35S promoter region plus flanks)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE  
USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE  
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 8 OF 9 REGISTRY COPYRIGHT 2001 ACS  
RN 184517-66-6 REGISTRY  
CN DNA (human PECAM-1 (cell adhesion molecule) promoter region-containing 1560-nucleotide fragment) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 120: PN: W00009525 SEQID: 2758 unclaimed DNA  
CN 35: PN: W00062736 SEQID: 2758 unclaimed DNA  
CN GenBank X96848  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE  
USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE  
3 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L8 ANSWER 9 OF 9 REGISTRY COPYRIGHT 2001 ACS  
RN 173763-71-8 REGISTRY  
CN DNA (Agrobacterium tumefaciens T-DNA clone pTS200 gene nos 3'-regulatory region-containing fragment fusion with Streptomyces hygroscopicus gene bar fusion with cauliflower mosaic virus 35S promoter region-containing fragment fusion with corn gene CA55 promoter region-containing fragment fusion with Bacillus amyloliquefaciens gene

## STN Columbus

barstar fusion with Agrobacterium tumefaciens T-DNA gene nos 3'-regulatory region-containing fragment) (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Deoxyribonucleic acid (Agrobacterium tumefaciens T-DNA clone pTS200 gene nos 3'-regulatory region-containing fragment fusion with Streptomyces hygroscopicus gene bar fusion with cauliflower mosaic virus 35S promoter region-containing fragment fusion with corn gene CA55 promoter region-containing fragment fusion with Bacillus amyloliquefaciens gene barstar fusion with Agrobacterium tumefaciens T-DNA gene nos 3'-regulatory region-containing fragment)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s ttgtca/sqsn and 35? and promot?

'/BI' NOT VALID IN A SEQUENCE QUERY

The field code specified is not valid in a sequence query. For more information, enter "HELP SSQ" at an arrow prompt (=>).

=> s ttgtca/sqsn

L9 1881523 TTGTCA/SQSN

COMMAND INTERRUPTED

L9 HAS NO ANSWERS

If this message appears repeatedly, please notify the Help Desk.

Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> d l9 1

L9 HAS NO ANSWERS

L9 ( 1881523)SEA FILE=REGISTRY TTGTCA/SQSN

=> s promot? and TTGTCA/SQSN

'/BI' NOT VALID IN A SEQUENCE QUERY

The field code specified is not valid in a sequence query. For more information, enter "HELP SSQ" at an arrow prompt (=>).

=> help ssq

Sequence information may be retrieved from the REGISTRY File using a variety of search fields.

### Protein Sequences

Four options are available for searching protein sequences using amino acid codes. Each requires the corresponding field qualifier described below. The sequence query is input using 1- and/or 3-letter codes for the amino acids. Enter HELP AAC at an arrow

## STN Columbus

prompt (=>) in the REGISTRY File for a list of codes for the common amino acids. Enter HELP AAU at an arrow prompt for the codes for the uncommon amino acids. Enter HELP SQQ at an arrow prompt for information on symbols used to allow for variability in subsequence queries.

Exact Sequence Search of Proteins (/SQEP) retrieves sequences that exactly match the search query. The search query must be completely defined. Variability symbols are not allowed.

Exact Family Sequence Search of Proteins (/SQEFP) retrieves answers that exactly match the query and answers in which family-equivalent substitution of the query amino acids occurs. Variability symbols are not allowed.

Subsequence Search of Proteins (/SQSP) retrieves exact answers plus sequences in which the query sequence is embedded. Variability symbols are allowed.

Subsequence Family Search of Proteins (/SQSFP) retrieves exact sequences, subsequences, and answers in which family-equivalent substitution of the query amino acids occurs. For example, the query ADHIFC/SQSFP retrieves the equivalent fragment ...PQKLYC..

The families of amino acid equivalents retrieved in protein family searches are:

P, A, G, S, T	(neutral, weakly hydrophobic)
Q, N, E, D, B, Z	(hydrophilic, acid amine)
H, K, R	(hydrophilic, basic)
L, I, V, M	(hydrophobic)
F, Y, W	(hydrophobic, aromatic)
C	(cross-link forming)

In addition to these sequence search methods, you also have the option of searching the following fields with text or numeric information on protein sequence features:

Definition	Search code
Note	/NTE
Sequence Length	/SQL

Left truncation may be used in the /NTE search field. A term with left truncation must contain at least four characters, for example, => S ?CHLOR?/NTE. The /SQL field is a numeric field and may be searched with numeric operators or ranges, e.g. 100-200/SQL.

A protein sequence query (i.e. a query consisting of one or more of these fields: /SQEP, /SQSP, /SQEFP, /SQSFP, /SQL or /NTE) may be combined directly in a single search with only the following fields: /FS, /UP. However, any sequence field may be combined with any L-numbered answer set in the REGISTRY File.

### Nucleic Acid Sequences

Two options are available for searching nucleic acid sequences using 1-letter codes. Each requires the corresponding field qualifier described below. Enter HELP NUC at an arrow prompt in the REGISTRY File for a list of codes for nucleic acids. Enter HELP SQQ for information on symbols used to allow for variability in subsequence queries.



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Exact Sequence Search of Nucleic Acids (/SQEN) retrieves sequences that exactly match the search query. The search query must be completely defined. Ambiguity codes for nucleic acids are allowed. Variability symbols are not allowed.

Subsequence Search of Nucleic Acids (/SQSN) retrieves exact answers plus sequences in which the query sequence is embedded. Variability symbols are allowed.

In addition to these sequence search methods you also have the option of searching the following fields with information on nucleic acid sequence features:

Definition	Search code
Nucleic Acid (type)	/NA
Nucleic Acid Count	/NA.CNT
Sequence Length	/SQL

The /SQL field is a numeric field.

A nucleic acid sequence query (i.e. a query consisting of one or more of these fields: /SQEN, /SQSN, /NA, /NA.CNT, /SQL) may be combined directly in a single search with only the following fields: /FS, /UP. However, any sequence field may be combined with any L-numbered answer set in the REGISTRY File.

```
=> s ttgtca/sqen
      0 TTGTCA/SQEN
      44804 SQL=6
L10      0 TTGTCA/SQEN
          (TTGTCA/SQEN AND SQL=6)

=> d l10
L10 HAS NO ANSWERS
L10      0 SEA FILE=REGISTRY TTGTCA/SQEN
```

```
=> s ttgaca/sqsn
L11      1973070 TTGACA/SQSN
```

```
=> s l11 and -35? and promot?
      94987 -35?
          (35?)
      10426 PROMOT?
L12      13 L11 AND -35? AND PROMOT?
```

```
=> d l12 1-13
```

```
L12 ANSWER 1 OF 13 REGISTRY COPYRIGHT 2001 ACS
RN 346003-14-3 REGISTRY
CN DNA (Arabidopsis thaliana gene PYK10 promoter region 3569-nucleotide)
   (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1: PN: W00144454 SEQID: 1 claimed DNA
```

# STN Columbus

FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 2 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 339135-02-3 REGISTRY  
 CN DNA (cauliflower mosaic virus 35S promoter region fusion with corn clone pAHC20 ubiquitin gene promoter region plus 3'-flank) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1: PN: W00132897 FIGURE: 1 claimed sequence  
 CN DNA (cauliflower mosaic virus 35S promoter region fusion with maize clone pAHC20 polyubiquitin gene promoter region plus intron 1)  
 CN DNA (synthetic clone PUBI 510 promoter SUC-1)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 3 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 325176-95-2 REGISTRY  
 CN DNA (synthetic Aspergillus alca gene promoter region-containing fragment fusion with promoter 35S) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 15: PN: W00109357 FIGURE: 2 claimed sequence  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 4 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 307491-92-5 REGISTRY  
 CN DNA (mouse dystrophin-associated glycoprotein 35,000-molecular-weight gene promoter region plus exons 1-2) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN DNA (mouse  $\gamma$ -sarcoglycan gene promoter region plus exons 1-2)  
 CN GenBank AB044628  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR GenBank  
 LC STN Files: CA, CAPLUS, GENBANK, TOXLIT

# STN Columbus

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 5 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 271754-52-0 REGISTRY  
 CN DNA (mouse Tamm-Horsfall glycoprotein gene promoter region-containing fragment) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 35: PN: W00029608 SEQID: 101 claimed DNA  
 CN DNA (mouse uromodulin gene promoter region-containing fragment)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 6 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 252031-57-5 REGISTRY  
 CN DNA (H6 promoter region plus human cytomegalovirus gene pp65 plus 42K promoter region plus human cytomegalovirus gene pp150 plus vaccinia virus strain ALVAC fragment plus C6 locus) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 35: PN: US5997878 SEQID: 71 claimed DNA  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 7 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 242136-68-1 REGISTRY  
 CN DNA (tomato line 1345-4 synthetic gene Acc2 fragment plus flanks) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN DNA (tomato line 1345-4 synthetic T-DNA aminocyclopropane carboxylate synthase 2 gene fragment plus flanks)  
 CN DNA (tomato line 1345-4 T-DNA inverted transgene AccS fragment plus transgene AccS plus inverted transgene AccS fragment plus flanks)  
 CN DNA (transgenic tomato line 1345-4 T-DNA nos3' plus inverted gene Acc2 fragment plus 35S promoter plus ocs3' plus inverted gene NPTII plus gene nos promoter plus gene NPTII plus ocs3' plus 35S promoter plus gene Acc2 fragment plus nos3' plus inverted gene Acc2 fragment plus 35S promoter plus ocs3' plus inverted gene NPTII)  
 CN GenBank AR074365  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, GENBANK, TOXLIT, USPATFULL

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 8 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 217802-94-3 REGISTRY  
 CN DNA (mouse gene UCP3 promoter region-containing 3571-nucleotide  
 fragment) (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 9 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 202540-02-1 REGISTRY  
 CN DNA (human interleukin 12 35-kilodalton subunit gene promoter region)  
 (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 10 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 187758-64-1 REGISTRY  
 CN DNA (plasmid pTS172) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Deoxyribonucleic acid (plasmid pTS172 Bacillus amyloliquefaciens  
 barnase gene plus rice gene E1 promoter region plus bar gene plus  
 cauliflower mosaic virus 35S promoter region plus flanks)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 11 OF 13 REGISTRY COPYRIGHT 2001 ACS  
 RN 184517-66-6 REGISTRY  
 CN DNA (human PECAM-1 (cell adhesion molecule) promoter  
 region-containing 1560-nucleotide fragment) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 120: PN: WO0009525 SEQID: 2758 unclaimed DNA  
 CN 35: PN: WO0062736 SEQID: 2758 unclaimed DNA  
 CN GenBank X96848

# STN Columbus

FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

3 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 12 OF 13 REGISTRY COPYRIGHT 2001 ACS

RN 145752-04-1 REGISTRY

CN DNA (tomato clone pEI.23BgB10.7  $\beta$ -fructofuranosidase gene  
promoter region-containing fragment) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (tomato clone pEI.23BgB10.7  
 $\beta$ -fructofuranosidase gene promoter region-containing fragment)

OTHER NAMES:

CN DNA (tomato clone pEI.23BgB10.7  $\beta$ -fructofuranosidase gene  
region-containing 3519-nucleotide fragment)

FS NUCLEIC ACID SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L12 ANSWER 13 OF 13 REGISTRY COPYRIGHT 2001 ACS

RN 136110-55-9 REGISTRY

CN DNA, (Mycobacterium tuberculosis clone By2 32.0-kilodalton antigen  
gene 358-nucleotide promoter region-containing fragment) (9CI) (CA  
INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid, (Mycobacterium tuberculosis clone By2  
32.0-kilodalton antigen gene 358-nucleotide promoter region-containing  
fragment)

FS NUCLEIC ACID SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s ttgccca/sqsn

L13 2080989 TTGCCA/SQSN

=> s l13 and -35? and promot?

STN Columbus

94987 -35?  
(35?)  
10426 PROMOT?  
L14 18 L13 AND -35? AND PROMOT?

=> d l14 1-18

L14 ANSWER 1 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 358467-68-2 REGISTRY  
CN DNA (cauliflower mosaic virus synthetic 35S promoter  
MF-48-4-containing fragment) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 4: PN: W00164865 SEQID: 4 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE  
USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE  
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 2 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 358467-67-1 REGISTRY  
CN DNA (cauliflower mosaic virus synthetic 35S promoter  
MF-48-2-containing fragment) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 3: PN: W00164865 SEQID: 3 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE  
USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE  
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 3 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 358467-66-0 REGISTRY  
CN DNA (cauliflower mosaic virus synthetic 35S promoter MF-18-containing  
fragment) (9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN 2: PN: W00164865 SEQID: 2 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE  
USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE  
1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 4 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 358467-65-9 REGISTRY  
CN DNA (cauliflower mosaic virus synthetic 35S promoter MF-48-containing  
fragment) (9CI) (CA INDEX NAME)

# STN Columbus

## OTHER NAMES:

CN 1: PN: WO0164865 SEQID: 1 claimed DNA  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 5 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 346003-14-3 REGISTRY  
 CN DNA (Arabidopsis thaliana gene PYK10 promoter region 3569-nucleotide)  
 (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 1: PN: WO0144454 SEQID: 1 claimed DNA  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 6 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 307491-92-5 REGISTRY  
 CN DNA (mouse dystrophin-associated glycoprotein 35,000-molecular-weight  
 gene promoter region plus exons 1-2) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN DNA (mouse  $\gamma$ -sarcoglycan gene promoter region plus exons  
 1-2)  
 CN GenBank AB044628  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR GenBank  
 LC STN Files: CA, CAPLUS, GENBANK, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 7 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 271754-52-0 REGISTRY  
 CN DNA (mouse Tamm-Horsfall glycoprotein gene promoter region-containing  
 fragment) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 35: PN: WO0029608 SEQID: 101 claimed DNA  
 CN DNA (mouse uromodulin gene promoter region-containing fragment)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

## STN Columbus

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 8 OF 18 REGISTRY COPYRIGHT 2001 ACS

RN 252364-29-7 REGISTRY

CN DNA (synthetic corn oleosin gene promoter region-containing  
0.95-kilobase fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 35: PN: WO9964579 SEQID: 41 claimed DNA

FS NUCLEIC ACID SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 9 OF 18 REGISTRY COPYRIGHT 2001 ACS

RN 252031-57-5 REGISTRY

CN DNA (H6 promoter region plus human cytomegalovirus gene pp65 plus 42K  
promoter region plus human cytomegalovirus gene ppl50 plus vaccinia virus  
strain ALVAC fragment plus C6 locus) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 35: PN: US5997878 SEQID: 71 claimed DNA

FS NUCLEIC ACID SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 10 OF 18 REGISTRY COPYRIGHT 2001 ACS

RN 242136-68-1 REGISTRY

CN DNA (tomato line 1345-4 synthetic gene Acc2 fragment plus flanks) (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN DNA (tomato line 1345-4 synthetic T-DNA aminocyclopropane carboxylate  
synthase 2 gene fragment plus flanks)

CN DNA (tomato line 1345-4 T-DNA inverted transgene AccS fragment plus  
transgene AccS plus inverted transgene AccS fragment plus flanks)

CN DNA (transgenic tomato line 1345-4 T-DNA nos3' plus inverted gene  
Acc2 fragment plus 35S promoter plus ocs3' plus inverted gene NPTII plus  
gene nos promoter plus gene NPTII plus ocs3' plus 35S promoter plus gene  
Acc2 fragment plus nos3' plus inverted gene Acc2 fragment plus 35S  
promoter plus ocs3' plus inverted gene NPTII)

CN GenBank AR074365

FS NUCLEIC ACID SEQUENCE

MF Unspecified

CI MAN

SR CA

LC STN Files: CA, CAPLUS, GENBANK, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE



## STN Columbus

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 11 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 235402-30-9 REGISTRY  
CN DNA (Mycobacterium BCG strain ATCC 35734 PAN promoter  
region-containing 2,405-nucleotide fragment) (9CI) (CA INDEX NAME)

#### OTHER NAMES:

CN GenBank AF095590  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: CA, CAPLUS, GENBANK, TOXLIT

### STRUCTURE DIAGRAM IS NOT AVAILABLE

#### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 12 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 217802-94-3 REGISTRY  
CN DNA (mouse gene UCP3 promoter region-containing 3571-nucleotide  
fragment) (9CI) (CA INDEX NAME)

FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

### STRUCTURE DIAGRAM IS NOT AVAILABLE

#### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 13 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 203459-82-9 REGISTRY  
CN DNA (peanut chlorotic streak virus promoter region-containing  
352-nucleotide fragment) (9CI) (CA INDEX NAME)

#### OTHER NAMES:

CN GenBank AR066476  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, GENBANK, TOXLIT, USPATFULL

### STRUCTURE DIAGRAM IS NOT AVAILABLE

#### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 14 OF 18 REGISTRY COPYRIGHT 2001 ACS  
RN 200649-81-6 REGISTRY  
CN DNA (Salmonella typhimurium infection-induced gene promoter  
region-containing 357-nucleotide fragment) (9CI) (CA INDEX NAME)

FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA

LC STN Files: CA, CAPLUS

# STN Columbus

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 15 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 200649-40-7 REGISTRY  
 CN DNA (Salmonella typhimurium infection-induced gene promoter region-containing 352-nucleotide fragment) (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 16 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 187758-64-1 REGISTRY  
 CN DNA (plasmid pTS172) (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Deoxyribonucleic acid (plasmid pTS172 Bacillus amyloliquefaciens barnase gene plus rice gene E1 promoter region plus bar gene plus cauliflower mosaic virus 35S promoter region plus flanks)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 17 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 181029-20-9 REGISTRY  
 CN DNA (synthetic methylation target-free promoter 35S-containing fragment) (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Deoxyribonucleic acid (synthetic methylation target-free promoter 35S-containing fragment)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L14 ANSWER 18 OF 18 REGISTRY COPYRIGHT 2001 ACS  
 RN 173763-71-8 REGISTRY  
 CN DNA (Agrobacterium tumefaciens T-DNA clone pTS200 gene nos 3'-regulatory region-containing fragment fusion with Streptomyces hygroscopicus gene bar fusion with cauliflower mosaic virus 35S promoter

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region-containing fragment fusion with corn gene CA55 promoter  
region-containing fragment fusion with Bacillus amyloliquefaciens gene  
barstar fusion with Agrobacterium tumefaciens T-DNA gene nos 3'-regulatory  
region-containing fragment) (9CI) (CA INDEX NAME)

## OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (Agrobacterium tumefaciens T-DNA clone pTS200  
gene nos 3'-regulatory region-containing fragment fusion with Streptomyces  
hygroscopicus gene bar fusion with cauliflower mosaic virus 35S promoter  
region-containing fragment fusion with corn gene CA55 promoter  
region-containing fragment fusion with Bacillus amyloliquefaciens gene  
barstar fusion with Agrobacterium tumefaciens T-DNA gene nos 3'-regulatory  
region-containing fragment)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

2 REFERENCES IN FILE CA (1967 TO DATE)  
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s ttgtca/sqsn  
L15 1881523.TTGTCa/SQSN

## 75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> s l15 and -35? and promot?  
94987 -35?  
(35?)  
10426 PROMOT?  
L16 14 L15 AND -35? AND PROMOT?

=> d l16 1-14

L16 ANSWER 1 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 367984-89-2 REGISTRY  
CN DNA (mouse transcription factor ARF gene 361-bp promoter  
region-containing fragment) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 35: PN: US6303772 SEQID: 34 claimed DNA  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 2 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 346003-14-3 REGISTRY  
CN DNA (Arabidopsis thaliana gene PYK10 promoter region 3569-nucleotide)  
(9CI) (CA INDEX NAME)

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## OTHER NAMES:

CN 1: PN: WO0144454 SEQID: 1 claimed DNA  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 3 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 339135-02-3 REGISTRY  
 CN DNA (cauliflower mosaic virus 35S promoter region fusion with corn clone pAHC20 ubiquitin gene promoter region plus 3'-flank) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 1: PN: WO0132897 FIGURE: 1 claimed sequence  
 CN DNA (cauliflower mosaic virus 35S promoter region fusion with maize clone pAHC20 polyubiquitin gene promoter region plus intron 1)  
 CN DNA (synthetic clone pUBI 510 promoter SUC-1)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 4 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 307491-92-5 REGISTRY  
 CN DNA (mouse dystrophin-associated glycoprotein 35,000-molecular-weight gene promoter region plus exons 1-2) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN DNA (mouse  $\gamma$ -sarcoglycan gene promoter region plus exons 1-2)  
 CN GenBank AB044628  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR GenBank  
 LC STN Files: CA, CAPLUS, GENBANK, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

### USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 5 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 252364-29-7 REGISTRY  
 CN DNA (synthetic corn oleosin gene promoter region-containing 0.95-kilobase fragment) (9CI) (CA INDEX NAME)

## OTHER NAMES:

CN 35: PN: WO9964579 SEQID: 41 claimed DNA  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN

STN Columbus

SR CA  
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 6 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 242136-68-1 REGISTRY  
CN DNA (tomato line 1345-4 synthetic gene Acc2 fragment plus flanks) (9CI)  
(CA INDEX NAME)

OTHER NAMES:

CN DNA (tomato line 1345-4 synthetic T-DNA aminocyclopropane carboxylate  
synthase 2 gene fragment plus flanks)  
CN DNA (tomato line 1345-4 T-DNA inverted transgene AccS fragment plus  
transgene AccS plus inverted transgene AccS fragment plus flanks)  
CN DNA (transgenic tomato line 1345-4 T-DNA nos3' plus inverted gene  
Acc2 fragment plus 35S promoter plus ocs3' plus inverted gene NPTII plus  
gene nos promoter plus gene NPTII plus ocs3' plus 35S promoter plus gene  
Acc2 fragment plus nos3' plus inverted gene Acc2 fragment plus 35S  
promoter plus ocs3' plus inverted gene NPTII)  
CN GenBank AR074365  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, GENBANK, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 7 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 235402-30-9 REGISTRY  
CN DNA (Mycobacterium BCG strain ATCC 35734 PAN promoter  
region-containing 2,405-nucleotide fragment) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN GenBank AF095590  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: CA, CAPLUS, GENBANK, TOXLIT

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 8 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 217802-94-3 REGISTRY  
CN DNA (mouse gene UCP3 promoter region-containing 3571-nucleotide  
fragment) (9CI) (CA INDEX NAME)  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

# STN Columbus

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 9 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 202540-02-1 REGISTRY  
 CN DNA (human interleukin 12 35-kilodalton subunit gene promoter region)  
 (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, TOXLIT

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 10 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 200649-88-3 REGISTRY  
 CN DNA (Salmonella typhimurium infection-induced gene promoter  
 region-containing 355-nucleotide fragment) (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 11 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 200649-40-7 REGISTRY  
 CN DNA (Salmonella typhimurium infection-induced gene promoter  
 region-containing 352-nucleotide fragment) (9CI) (CA INDEX NAME)  
 FS NUCLEIC ACID SEQUENCE  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS

## STRUCTURE DIAGRAM IS NOT AVAILABLE

## USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

- 1 REFERENCES IN FILE CA (1967 TO DATE)
- 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 12 OF 14 REGISTRY COPYRIGHT 2001 ACS  
 RN 173763-71-8 REGISTRY  
 CN DNA (Agrobacterium tumefaciens T-DNA clone pTS200 gene nos  
 3'-regulatory region-containing fragment fusion with Streptomyces  
 hygroscopicus gene bar fusion with cauliflower mosaic virus 35S promoter  
 region-containing fragment fusion with corn gene CA55 promoter  
 region-containing fragment fusion with Bacillus amyloliquefaciens gene  
 barstar fusion with Agrobacterium tumefaciens T-DNA gene nos 3'-regulatory  
 region-containing fragment) (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Deoxyribonucleic acid (Agrobacterium tumefaciens T-DNA clone pTS200  
 gene nos 3'-regulatory region-containing fragment fusion with Streptomyces  
 hygroscopicus gene bar fusion with cauliflower mosaic virus 35S promoter

# STN Columbus

region-containing fragment fusion with corn gene CA55 promoter  
region-containing fragment fusion with Bacillus amyloliquefaciens gene  
barstar fusion with Agrobacterium tumefaciens T-DNA gene nos 3'-regulatory  
region-containing fragment)

FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

2 REFERENCES IN FILE CA (1967 TO DATE)

2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 13 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 151280-15-8 REGISTRY  
CN DNA (human CGM1 cell immunoglobulin heavy chain gene ProV3-35  
promoter region-containing fragment) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (human CGM1 cell immunoglobulin heavy chain  
gene ProV3-35 promoter region-containing fragment)

OTHER NAMES:

CN GenBank L24130  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified  
CI MAN  
SR GenBank  
LC STN Files: BIOSIS, CA, CAPLUS, GENBANK

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L16 ANSWER 14 OF 14 REGISTRY COPYRIGHT 2001 ACS  
RN 143641-65-0 REGISTRY  
CN DNA (figwort mosaic virus 35S rRNA gene promoter region-containing  
fragment) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Deoxyribonucleic acid (figwort mosaic virus 35S ribosomal RNA gene  
promoter region-containing fragment)

OTHER NAMES:

CN 8: PN: US6015940 SEQID: 8 unclaimed DNA  
CN Deoxyribonucleic acid (figwort mosaic virus 35S promoter  
region-containing)  
CN Deoxyribonucleic acid (figwort mosaic virus promoter  
region-containing 597-nucleotide fragment)  
CN DNA (figwort mosaic virus 35S rRNA gene promoter region-containing  
fragment)  
CN GenBank AR014742  
CN GenBank AR022678  
CN GenBank AR038167  
CN GenBank AR087535  
CN GenBank I19354  
CN GenBank I19984  
CN GenBank I33139  
CN GenBank I43997  
CN GenBank I49006  
CN GenBank I86990  
FS NUCLEIC ACID SEQUENCE  
MF Unspecified

STN Columbus

CI MAN  
SR CA  
LC STN Files: CA, CAPLUS, GENBANK, TOXCENTER, TOXLIT, USPATFULL

STRUCTURE DIAGRAM IS NOT AVAILABLE

USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE

8 REFERENCES IN FILE CA (1967 TO DATE)

8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

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